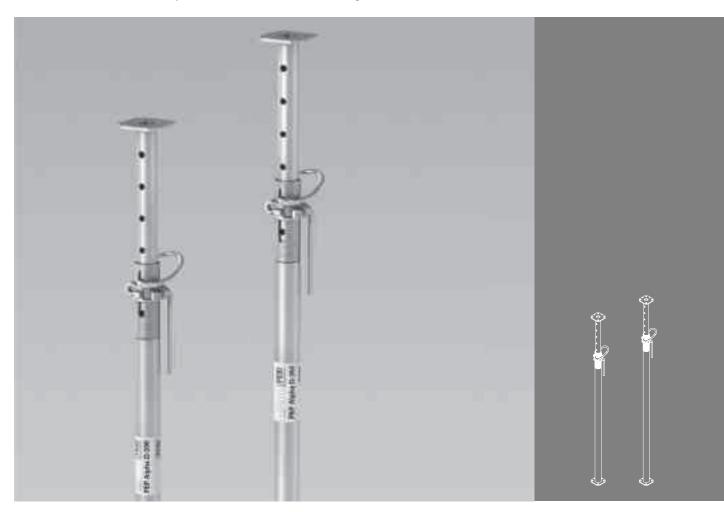


PEP Alpha D-300, D-350 Slab Props

Instructions for Assembly and Use – Standard Configuration



Edition 06 | 2016

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Overview



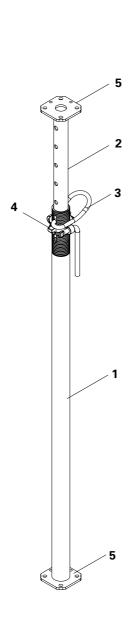
Main components

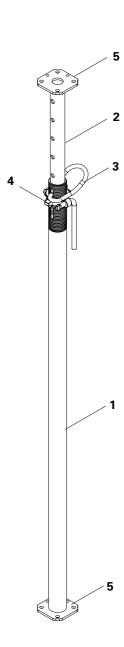
PEP Alpha D-300

PEP Alpha D-350









- 1 Outer Tube
- 2 Inner Tube
- 3 G-Hook
- 4 Adjusting Nut with Grip5 End Plates Inner Tube / Outer Tube



Key

Pictogram | Definition

A

Safety instructions



Note



Visual check



Tip



Load-bearing point



Safety helmet



Safety gloves



Safety shoes



Eye protection



Misapplication

Dimension specifications

Dimensions are usually given in mm and m. Other measurement units, e.g. cm, are shown in the drawings.

Conventions

Instructions are numbered (1....., 2....,...)

Multiple position numbers, i.e. alternative components, are represented with a slash: 1 / 2.

Arrows

Actions Forces



General

The illustration on the front cover of these instructions is understood to be a system representation only. The assembly steps presented in these Instructions for Assembly and Use are shown in the form of examples with only one component size. They are valid accordingly for all component sizes contained in the standard configuration.

For a better understanding, detailed illustrations are partly incomplete. The safety installations which have possibly not been featured in these detailed drawings must nevertheless still be available.



Target groups

Contractors

These Instructions for Assembly and Use are designed for contractors who use the scaffolds either to

- assemble, modify and dismantle the formwork system, or
- use them, e.g. for concreting, or
- who have them used, e.g. for forming operations.

Construction site coordinator

The Safety and Health Protection Coordinator*

- is appointed by the client,
- must identify potential hazards during the planning phase,
- determines measures that provide protection against risks,
- creates a safety and health plan,
- coordinates the protective measures for the contractor and site personnel so that they do not endanger each other.
- monitors compliance with the protective measures.

Competent person

Due to the specialist knowledge gained from professional training, work experience and recent professional activity, the qualified person has a reliable understanding of safety-related issues and can correctly carry out inspections. Depending on the complexity of the test to be undertaken, e.g. scope of testing, type of testing or the use of a certain measuring device, a range of specialist knowledge is necessary.

Qualified person

The scaffolding may only be assembled, modified or dismantled by personnel who are suitably qualified to do so. For the work to be carried out, the qualified person must have received instructions** which contain at least the following points:

- An explanation of the plan for the assembly, modification or dismantling of the scaffolding in an understandable form and language.
- Description of measures in order to safely assemble, modify or dismantle the scaffolding.
- Designation of the preventive measures to avoid the risk of persons and objects falling.
- **Instructions are given by the contractor himself or a qualified person selected by him.

- Designation of the safety precautions in the event of changing weather conditions which could adversely affect the safety of the scaffolding as well as the personnel concerned.
- Details regarding the permissible
- Description of any other risks that are associated with the assembly, modification or dismantling procedures.



In other countries, ensure that the relevant national guidelines and regulations in the respective current version are complied with!

- *Valid in Germany: Regulations for Occupational Health and Safety on Construction Sites 30 (RAB 30).

Additional technical documentation

- Assembly instructions Slab Formwork
 - MULTIFLEX
 - SKYDECK
 - GRIDFLEX

Slab Tables

- TABLE MODULES
- VARIODECK
- SKYTABLE
- Instructions for Use
 - Trolley with Winch
 - Pallets and Stacking Devices

- Brochure
 - PEP Ergo Slab Props
 - PEP 10 Slab Props
 - PEP 20, 30 Slab Props
- PERI Design Tables



Intended use

Product description

PERI products have been designed for exclusive use in the industrial and commercial sectors by competent personnel only.

PEP Alpha Slab Props are steel slab props with an integrated extension device, comply with the load requirements of DIN EN 1065, and are used as vertical supports for temporary constructions.

Features

PEP Alpha Slab Props are used in shoring assemblies in a planned perpendicular position in order to transfer vertical loads. In particular, they also provide support for slab formwork systems.

All components are galvanized.

- The overall length of the slab prop is stamped in 8 cm increments on the pegging holes on the inner tube.
- The adjustment range per marking is max. 10 cm.

Safe working conditions are guaranteed at all times through:

- hand safety clearance.
- anti-dropout safeguard on the inner tube.

Technical data

- Props according to DIN EN 1065.
- For load-bearing capacities, see Tables.

Instructions for Use

General

The use in a way not intended, deviating from the standard configuration or the intended use according to the Instructions for Assembly and Use, represents a misapplication with a potential safety risk, e.g. risk of falling.

Only PERI original components may be used. The use of other products and spare parts is not allowed.

Changes to PERI components are not permitted.

The suitability and safe use of mounting parts on the end plates of the PEP Alpha Slab Props is to be checked by the contractor and ensured.



Care and maintenance instructions

PEP Alpha Slab Props have been designed for long-term use on the construction site.

In order to maintain the value and operational readiness of the PERI products over the long term, clean the elements after each use.

When cleaning, utilize personal protective equipment in accordance with the intended use.

Minimum requirements:

- safety glasses
- protective gloves
- safety shoes

Safety instructions



Cross-system

General

The contractor must ensure that the Instructions for Assembly and Use supplied by PERI are available at all times and are understood by the site personnel

These Instructions for Assembly and Use can be used as the basis for creating a risk assessment. The risk assessment is compiled by the contractor. The Instructions for Assembly and Use do not replace the risk assessment!

Always take into consideration and comply with the safety instructions and permissible loads.

For the application and inspection of PERI products, the current safety regulations and guidelines must be observed in the respective countries where they are being used.

Materials and working areas are to be inspected on a regular basis especially before each use and assembly for:

- signs of damage,
- stability and
- function.

Damaged components must be exchanged immediately on site and may no longer be used.

Safety components are to be removed only when they are no longer required.

Components provided by the contractor must conform with the characteristics required in these Instructions for Assembly and Use as well as all valid construction guidelines and standards. Unless otherwise indicated, this applies in particular to:

timber components: Strength Class C24 for Solid Wood according to EN 338. scaffold tubes: galvanised steel tubes with minimum dimensions of \emptyset 48.3 x 3.2 mm according to EN 12811-1:2003 4.2.1.2. scaffold tube couplings according to EN 74.

Deviations from the standard configuration are only permitted after a further risk assessment has been carried out by the contractor. On the basis of this risk assessment, appropriate measures for working and operational safety as well as stability are to be determined.

Corresponding proof of stability can be provided by PERI on request if the risk assessment and resulting measures to be implemented are available.

Before and after exceptional occurrences that may have an adverse effect regarding the safety of the slab props, the contractor must immediately:

- create another risk assessment, with appropriate measures for ensuring the stability of the slab props being carried out based on the results,
- and arrange for an extraordinary inspection by a qualified and competent person. The aim of this inspection is to identify and rectify any damage in good time in order to guarantee the safe use of the slab props.

Exceptional occurrences can include:

- accidents,
- longer periods of non-use,
- natural events, e.g. heavy rainfall, icing, heavy snowfall, storms or earthquakes.

Assembly, modification and dismantling work

Assembly, modification or dismantling of the slab props may only be carried out by qualified specialists under the supervision of an authorized person. The qualified specialists must have received appropriate training for the work to be carried out with regard to specific risks and dangers.

On the basis of the risk assessment and Instructions for Assembly and Use, the contractor must create installation instructions in order to ensure safe assembly, modification and dismantling of the slab props.

Before initial use, the safe functioning of the slab props must be checked by a qualified person. The result of the inspection must be documented in an inspection record. The contractor must ensure that the personal protective equipment required for the assembly, modification or dismantling of the slab props, e.g.

- safety helmet,
- safety shoes,
- safety gloves,
- safety glasses,

is available and used as intended.

If personal protective equipment (PPE) is required or specified in local regulations, the contractor must determine appropriate attachment points on the basis of the risk assessment.

The personal protective equipment against falling to be used is determined by the contractor.

The contractor must:

- provide safe working areas for site personnel which are to be reached through the provision of safe access ways. Areas of risk must be cordoned off and clearly marked,
- ensure the stability during all stages of construction, in particular during assembly, modification and dismantling operations,
- ensure and prove that all loads can be safely transferred.

Utilization

Every contractor who uses or allows slab props or sections of the slab props to be used, has the responsibility for ensuring that the equipment is in good condition.

If the slab props are used successively or at the same time by several contractors, the health and safety coordinator must point out any possible mutual hazards and all work must be then coordinated.

Safety instructions



System-specific

Retract components only when the concrete has sufficiently hardened and the person in charge has given the goahead for striking to take place.

Anchoring is to take place only if the anchorage has sufficient concrete strength.

The load-distributing support used, such as planking, must match the respective base. If several layers are required, planks are to be arranged crosswise.

Storage and transportation

Store and transport components ensuring that no unintentional change in their position is possible. Detach lifting accessories and slings from the lowered components only if they are in a stable position and no unintentional change is

Do not drop the components.

During the moving procedure:

- ensure that components are picked up and set down so that unintentional falling over, falling apart, sliding, falling down or rolling is avoided,
- no persons are allowed to remain under the suspended load.

For transportation, the surface must have sufficient load-bearing capacity.

Use only suitable lifting accessories to move the components as well as the designated load-bearing points.

During the lifting and moving procedure, ensure that all loose parts are removed or secured.

Deliveries carried out by PERI usually take place in the form of bundles with a maximum of 50 slab props each time. These are tied together by means of steel straps.



Risk of injury! Attaching lifting accessories to the steel straps is not permitted! (Fig. S1. 01)

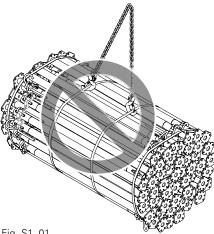


Fig. S1. 01



- Transportation units must be correctly stacked and secured!
- Store and transport only props of the same size in one bundle.
- For transportation, the respective national traffic regulations must be complied with at all times.

A1 Assembly



Pre-assembling the slab prop



For the safety of the user, the following should be checked before every use to see whether

- the slab prop is complete,
- the slab prop has no cracks, holes or broken parts,
- the inner tube and adjusting nut are smooth-running and the end plates are flat.



- Shown here is the assembly of a free-standing slab prop.
- When used in the system, the respective Instructions for Assembly and
 Use are to be taken into account, e.g.
 Slab Formwork Systems.

Pre-assembly

- 1. Adjust the inner tube (2) of the slab prop to the required height. (Fig. A1.01/A1.01a/A1.02)
- Turn the inner tube so that the hole in the elongated hole (1b) of the outer tube (1) is visible.
 (Fig. A1.01 + A1.01a)
- 3. Insert G-hook (3) into the visible hole and slide through the inner tube. (Fig. A1.01a)
- Turn adjusting nut (4) with grip (4a) to the required size. (Fig. A1.01a)

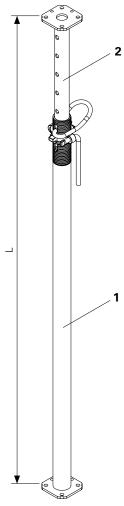


Fig. A1.01

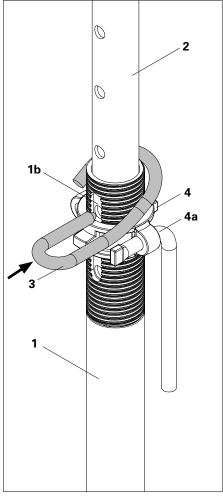
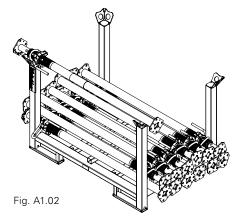


Fig. A1.01a





Lay slab prop for pre-assembly on a Pallet RP-2. (Fig. A1.02)

A1 Assembly



Assembly with Tripod PEP Ergo

For slab props with tube \emptyset 44 – 64 mm.



Slab props and tripods

- place on clean, flat and sufficiently load-bearing surface only!
- are not suitable for planned transfer of horizontal loads!



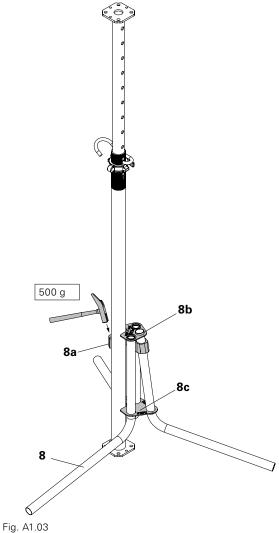
- Shown here is the assembly of a free-standing slab prop.
- When used in the system, the respective Instructions for Assembly and Use are to be taken into account.
- PEP Ergo Tripods (8) are simple assembly aids for shuttering and striking up to heights of approx. 3 m.

Tripod assembly

- 1. Insert pre-assembled slab prop into the tripod (8). (Fig. A1.03)
- 2. Secure push-pull device (8a) with a hammer. (Fig. A1.03)
- 3. Ensure that slab prop lies flat to the top and bottom connection plates (8b and 8c). (Fig. A1.03a)



- Check push-pull device to ensure it is firmly in place.
- Slab prop must lie flat on the top and bottom connection plates.
- Slab prop must be in a perpendicular position.



Alignment points

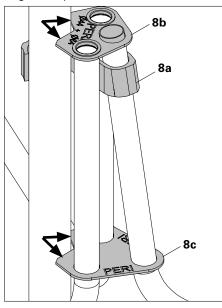


Fig. A1.03a

A1 Assembly



Assembly with Universal Tripod

For slab props with tube \emptyset 48 mm to \square 120 mm.



Slab props and tripods

- place on clean, flat and sufficiently load-bearing surface only!
- are not suitable for planned transfer of horizontal loads!



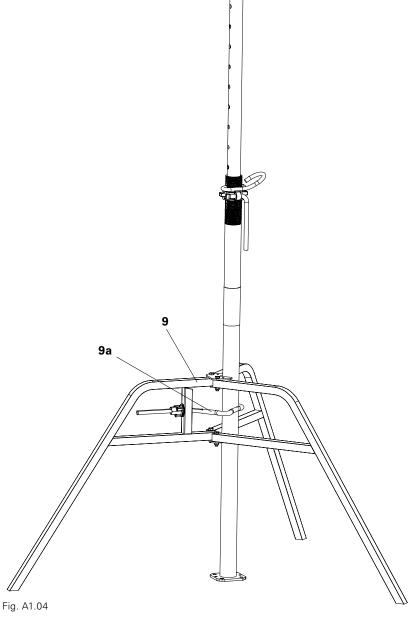
- Shown here is the assembly of a free-standing slab prop.
- When used in the system, the respective Instructions for Assembly and
 Use are to be taken into account.
- Universal tripods (9) are pure assembly aids for shuttering and striking up to heights of approx. 3 m.

Universal tripod assembly

- 1. Insert pre-assembled slab prop into the universal tripod (9). (Fig. A1.04)
- 2. Tighten clamp (9a).
- 3. Ensure that the slab prop lies flat against the top and bottom connection plates (9b and 9c). (Fig. A1.04a)



- Does the slab prop lie completely flat on the top and bottom connection plates?
- Has the clamp been tightened?
- Is the slab prop in a perpendicular position?



Alignment points

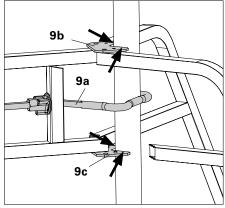


Fig. A1.04a



Assembly with PEP Frame PRK

For slab props with tube Ø 57 – 84 mm.



- Place slab prop on a tidy, flat and sufficiently load-bearing surface only!
- Slab props and PEP Frame PRK are not suitable for a planned transfer of horizontal loads!



- Shown here is the assembly with free-standing slab props.
- When used in the system, the respective Instructions for Assembly and
 Use are to be taken into account.
- PEP Frame PRK (10) is simply an assembly aid for shuttering and striking up to heights as of approx. 4 m.



- 1. Release wedge (10a) on the fasteners (10b) and open clamping jaws (10c). (Fig. A1.05)
- 2. Insert pre-assembled slab prop between the fastener and clamping jaws. (Fig. A1.06)
- 3. Close clamping jaw and push wedge downwards. Every frame has 4 fasteners each with one wedge (top and bottom as well as right and left). (Fig. A1.06 + A1.06a)
- 4. Mount additional frames on the slab props.
- 5. Hammer in all wedges (rebound impact). (Fig. A1.06 + A1.06a)



- Are all wedges securely fixed?
- Are the slab props in a perpendicular position?

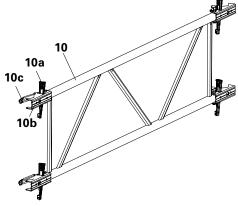


Fig. A1.05

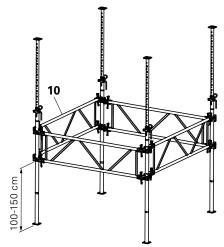


Fig. A1.06

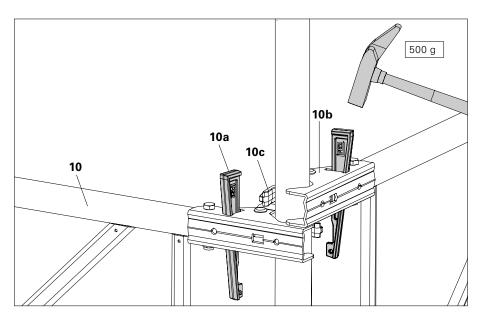


Fig. A1.06a



Releasing the slab propunder load

Dismantling:

- 1. Release adjusting nut and set load free with:
- Grip (4a). (Fig. A2.01)
- Hammer impact cam. (Fig. A2.02/A2.02a)
- Wingnut Spanner PEP Item no. 118345.
 (Fig. A2.03/A2.03a)



Ensure that the slab prop is completely free of any load.

- 2. Hold inner tube firmly and pull out G-hook. (Fig. A2.02a/A2.03a)
- 3. Push in inner tube.
- 4. Place slab prop in the pallet.



See Storage and Transportation in the safety instructions

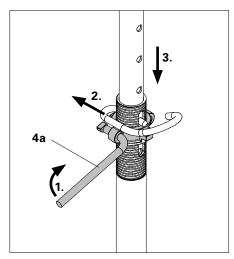


Fig. A2.01

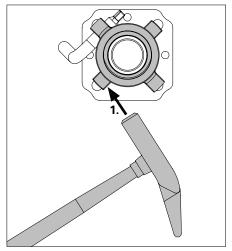


Fig. A2.02

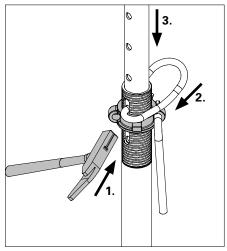


Fig. A2.02a



The wingnut spanner allows effortless and noiseless release of the adjusting nut – also with maximum prop load.

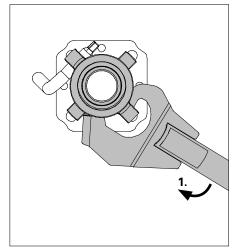


Fig. A2.03

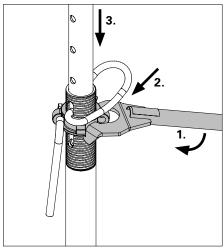


Fig. A2.03a

A3 Accessories



Brace Clamp

Used as an alternative assembly aid with high slab props as of approx. 4 m using bracing boards 3 x 15 cm.



Brace clamps are not suitable for a planned transfer of horizontal loads!



- Brace clamps (11) are simply assembly aids when shuttering and striking.
- As an option, tripods can be used as additional assembly aids.

Assembly

- 1. Pull narrow side of the wedge (11a) out of the clamp.
- 2. Place brace clamp (11) around the tube of the slab prop.
- 3. Insert board in the open side of the clamp.
- 4. Put wedge back into recess of the clamp and hammer in securely.
 - \rightarrow The wedge secures the board.
- Mount additional bracing boards by means of brace clamps. (Fig. A3.01)

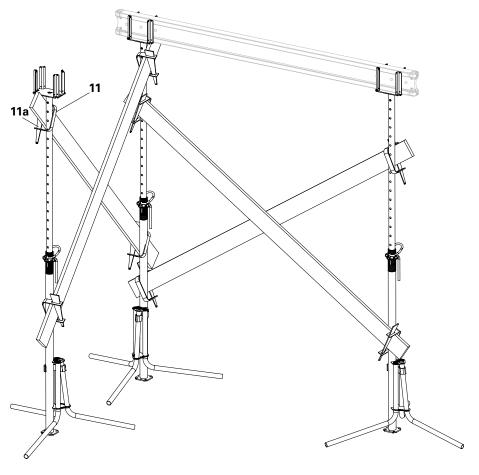


Fig. A3.01



Are the slab props in a perpendicular position?

Are all wedges securely fixed? Have all wedges secured the boards?

A4 Foreseeable misapplications

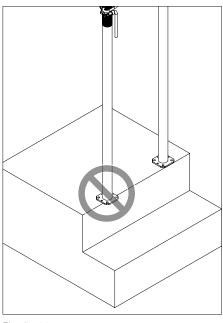




Applications of this type or similar are prohibited!

Ensure that slab props are always in a perpendicular position!

Only use full-faced support surfaces!



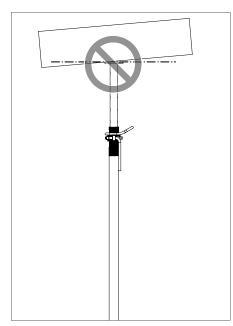


Fig. A4.01 Fig. A4.02a Fig. A4.02b



Slab props must always be in a vertical position.



End plates of the slab props must always lie completely flat. If necessary, fill the gap and secure the wedge.

Non-loadable installation surface!

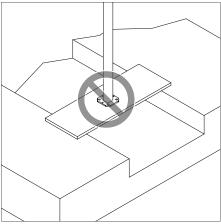


Fig. A4.03a

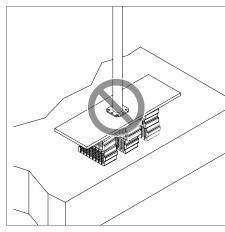


Fig. A4.03b

→

Slab props must always be positioned on load-bearing and flat surfaces.

A4 Foreseeable misapplications



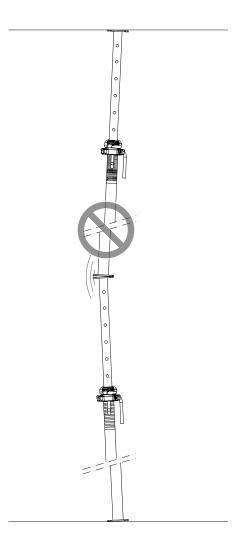


Applications of this type or similar are prohibited!

Do not connect the slab props to each other!

Do not use a tie rod or reinforcement bar instead of a G-hook!

Do not use for supporting formwork elements!





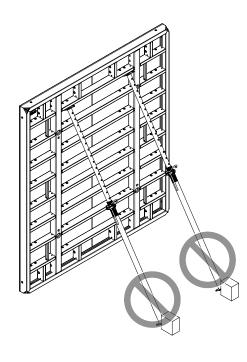


Fig. A4.05

→

Only use an original G-hook for pinning the inner tube.

Fig. A4.06



Use designated support equipment, e.g. push-pull props or brace frames.

Fig. A4.04



If the clearance is too large, a longer slab prop or a shoring tower must be used, e.g. MULTIPROP MP or PERI UP Flex.

A4 Foreseeable misapplications



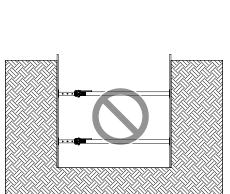


Applications of this type or similar are prohibited!

Do not use as a trench strut!

Do not use as anti-fall protection!

Do not use as a guardrail holder!





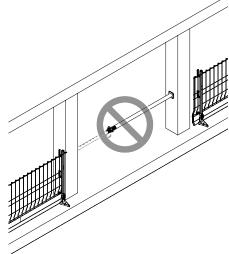


Fig. A4.08

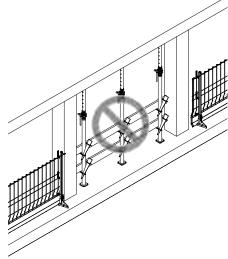


Fig. A4.09



Use designated trench strut.

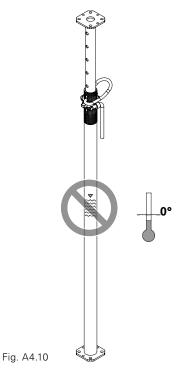


Use designated anti-fall equipment, e.g. PROKIT EP 110.



Use designated anti-fall equipment, e.g. PROKIT EP 110 or EP 200.

Ensure that no water collects inside the tube!





Ensure that water can drain off!
Do not close the openings!
Frost will cause the water to freeze. Formation of ice can cause the inner tube with G-hook to lift.



G-hook must be supported on the adjusting nut!

Slab Props





Permissible prop load [kN]

Length in mm	PEP Alpha D-300		PEP Alpha D-350		
Length	Outer tube bottom F _{max} (kN)	Inner tube bottom F _{max} (kN)	Outer tube bottom F _{max} (kN)	Inner tube bottom F _{max} (kN)	
1700	36.1	36.1			
1800	36.1	36.1			
1900	36.1	36.1			
2000	36.1	36.1	36.1	36.1	
2100	35.6	36.1	36.1	36.1	
2200	33.8	36.1	36.1	36.1	
2300	32.1	36.1	36.1	36.1	
2400	30.9	36.1	36.1	36.1	
2500	29.7	35.2	36.1	36.1	
2600	27.5	33.2	35.6	36.1	
2700	25.5	30.6	33.9	36.1	
2800	23.6	28.1	32.7	36.1	
2900	21.9	25.8	31.2	36.1	
3000	20.6	23.5	29.1	36.1	
3100			27.3	34.2	
3200			25.5	31.4	
3300			23.7	28.7	
3400			22.1	26.3	
3500			20.6	24.2	



PEP Alpha D-300 und PEP Alpha D-350 Props fulfil the load-bearing capacity requirements of DIN EN 1065.

PEP Alpha Slab Props



130272 15.900 130274 19.100

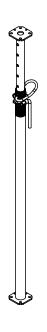
Slab Props PEP Alpha, galv. Slab Prop PEP Alpha D-300, galv. Slab Prop PEP Alpha D-350, galv.

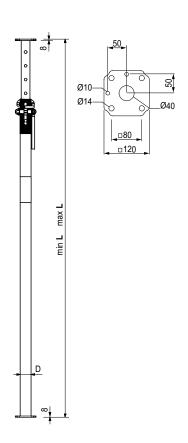
Slab prop made of steel.

D	min. L	max. L	
Ø 63.5	1710	3000	
Ø 70.0	1960	3500	

Note

Permissible load: see PERI Design Tables.





111811	13.700
111812	13.900
112813	15.900
112814	17.800
111813	19.200
111814	20.100

PEP Frames PRK
PEP Frames PRK 62.5
PEP Frames PRK 75
PEP Frames PRK 100
PEP Frames PRK 120
PEP Frames PRK 137.5
PEP Frames PRK 150

Stiffening frame for PEP slab props. Complete with captive wedge coupling.

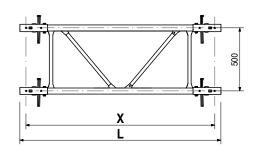
L	Х
723	625
848	750
1098	1000
1298	1200
1473	1375
1598	1500

Note

L = Loading Length

X = Axis Length

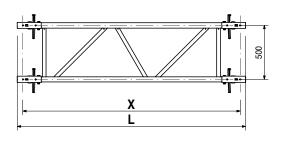




PEP Alpha Slab Props



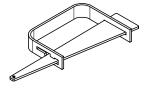
Item no.	Weight kg				
		PEP Frames PRK	L	Х	
112718	15.300	PEP Frames PRK 200	2098	2000	
111815	15.400	PEP Frames PRK 201.5	2113	2015	
112788	15.600	PEP Frames PRK 210	2198	2100	
111816	16.100	PEP Frames PRK 225	2348	2250	
111817	16.300	PEP Frames PRK 230	2398	2300	
111818	17.700	PEP Frames PRK 266	2758	2660	
111819	18.700	PEP Frames PRK 296	3058	2960	
		Stiffening frame for PEP slab props. Complete with captive wedge coupling.	Note L = Loading	g Length	

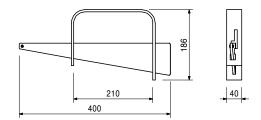


X = Axis Length

027940 1.840 **Brace Clamp, galv., 48 – 76 mm**

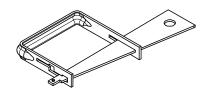
For assembly of 3 x 15 cm stiffening boards at slab props \emptyset 48 – 76 mm.

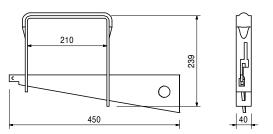




027790 2.460 **Brace Clamp HL, galv., 76 – 120 mm**

For assembly of 3 x 15 cm stiffening boards at slab props \emptyset 76 – 89 mm and 100 x 100 mm to 120 x 120 mm.



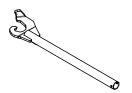


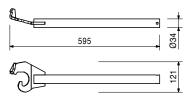


Item no. Weight kg 118345 1.500

Wing Nut Spanner PEP

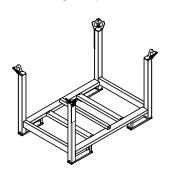
Allows effortless loosening of the adjusting nut with maximum loaded props.





103434 38.500 103429 45.300 Pallets RP-2, galv Pallet RP-2 80 x 120, galv. Pallet RP-2 80 x 150, galv.

For stacking and transportation of formwork and scaffolding components.



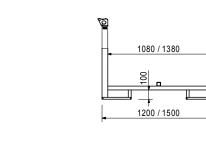
Note

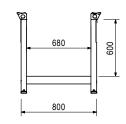
Follow Instructions for Use!

Technical Data

Permissible load-bearing capacity 1.5 t.

853



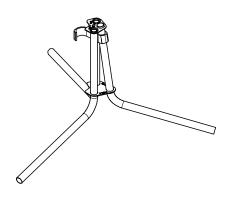


107152

5.810

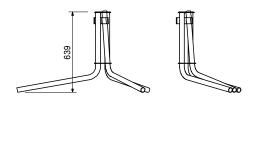
Tripod PEP Ergo, galv.

Erection aid for PEP Ergo Slab Props with \emptyset 44 – 64 mm.



Note

Only use as erection aid!





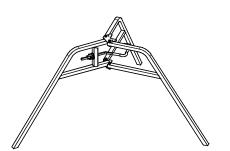
Item no. Weight kg 028000 9.170

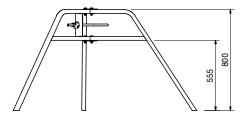
Universal Tripod, galv.

Erection aid for slab props with \emptyset 48 – 120 mm and 120 x 120 mm. Can also be used in combination with MULTIPROP MP slab props and all slab props with Base MP 50.

Note

Only use as erection aid!





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